

8. Claims Appendix

17. A diagnostic test for allergies, said test comprising:

- (d) obtaining a pharmaceutical composition of multimeric profilin;
- (e) administering the composition to a subject; and
- (f) determining a reaction from which allergenicity is inferred.

22. The method of claim 17, wherein multimeric profilin is selected from a group consisting of naturally occurring, synthetic, or recombinantly made profilin.

23. The diagnostic test of claim 17, wherein the profilin occurs as complexes of homomultimers.

24. The diagnostic test of claim 17, wherein the multimeric profilin comprises synthetic peptide fragments of profilin.

25. The diagnostic test of claim 24, wherein the multimeric profilin comprises synthetic peptide fragments that arise from profilin multimerization.

26. The diagnostic test of claim 17, wherein the multimeric profilin comprises peptide fragments made by recombinant DNA technology.

27. The diagnostic test of claim 17, wherein the multimeric profilin comprises monomers selected from the group consisting of celery (*Api g4*, GENE BANK ACCESSION NO. QPXF37) (SEQ ID NO: 1), peanut (*Ara h5*, GENE BANK ACCESSION NO. Q9SQ19) (SEQ ID NO: 2), birch tree pollen (*Bet v2*, GENE BANK ACCESSION NO. P25816) (SEQ ID NO: 3), Bermuda grass (*Cyn d12*, GENE BANK ACCESSION NO. 004725) (SEQ ID NO: 4), soybean (*Gly m3*, GENE BANK ACCESSION NO. 065809 (SEQ ID NO: 5), 065810 (SEQ ID NO: 6)), sunflower (*Hel A2*, GENE BANK ACCESSION NO. 081980) (SEQ ID NO: 7), latex (*Hev b8*, GENE BANK ACCESSION NO. CAB51914 (SEQ ID NO: 8), 065812 (SEQ ID NO: 9), Q9STB6 (SEQ ID NO: 10), Q9M7NO (SEQ ID NO: 11), Q9M7M9 (SEQ ID NO: 12), Q9M7M8 (SEQ ID NO: 13), Q9LE18 (SEQ ID NO: 14)), *Mercurialis annua* (*Mer al*, GENE BANK ACCESSION NO. 049894) (SEQ ID NO: 15), olive tree pollen (*Ole e2*, GENE BANK ACCESSION NO. P19963 (SEQ ID NO: 16), 0024170m (SEQ ID NO: 17) 024171 (SEQ ID NO: 18)), timothy grass (*Phl p1*, GENE BANK ACCESSION NO. P35079 (SEQ ID NO: 19), 024650 (SEQ ID NO: 20), 024282 (SEQ ID NO: 21)), sweet cherry (*Pru av4*, GENE BANK ACCESSION NO. Q9XF39 (SEQ ID NO: 22)), pear (*Pyr c4*, Q9XF27 (SEQ ID NO: 23)), corn

pollen (*Zea Pro I*, GENE BANK ACCESSION NO.B35081 (SEQ ID NO: 24); *Zea Pro II*, GENE BANK ACCESSION NO. P35080 (SEQ ID NO: 25); *ZMPro III*, GENE BANK ACCESSION NO. P35083 (SEQ ID NO: 26); *ZmProIV*, GENE BANK ACCESSION NO. 022655 (SEQ ID NO: 27); *ZmProV*, GENE BANK ACCESSION NO. Q9FR39 (SEQ ID NO: 28)), human (*profilin I*, GENE BANK ACCESSION NO. P07737 (SEQ ID NO: 29); *Profilin II isoform 1*, GENE BANK ACCESSION NO. NP_444252 (SEQ ID NO: 30); and *Profilin II isoform* GENE BANK ACCESSION NO._NP 002619 (SEQ ID NO: 31), or combinations thereof.

28. The diagnostic test of claim 17, wherein the composition comprises pharmaceutically acceptable carriers or diluents.